

Title (en)  
Heat and fire insulation material

Title (de)  
Hitze- und Feuerisoliermaterial

Title (fr)  
Matériau isolant du feu et de la chaleur

Publication  
**EP 1818359 A1 20070815 (DE)**

Application  
**EP 07001944 A 20070130**

Priority  
DE 102006006941 A 20060214

Abstract (en)  
In high-temperature resistant coating and molding composition forming ceramic on pyrolysis, comprising (A) 65-30 (wt.%) polymer matrix based on dimethylsiloxane, (B) 15-50% silicon dioxide (SiO<sub>2</sub>), (C) 1-12 wt.% silicon carbide, (D) 0.5-10% carbon, ceramic or silicate fibers of average length 0.5-12 mm and (E) 2.5-25% highly disperse metal oxide selected from SiO<sub>2</sub>, titanium dioxide and zirconium dioxide, with average particle size (B) 2-50, (C) 1-15, (E) 0.01-2  $\mu$ m, (E) has 0.1-8% surface coating compatible with (A).

Abstract (de)  
Die Erfindung betrifft eine Zusammensetzung für hochtemperaturfeste, pyrolytisch keramisierende Beschichtungen und Formteile aus einer Matrix aus einem Silikonharz, Siliciumdioxid, Siliciumcarbid, Fasern und einem hochdispersen Metalloxid, vorzugsweise Siliciumdioxids, das eine mit der Silikonmatrix verträgliche Oberflächenbeschichtung aufweist.

IPC 8 full level  
**C08K 3/00** (2006.01); **C04B 35/14** (2006.01); **C04B 35/565** (2006.01); **C04B 35/634** (2006.01); **C04B 35/638** (2006.01); **C08L 83/04** (2006.01); **C08K 3/14** (2006.01); **C08K 3/22** (2006.01); **C08K 3/36** (2006.01); **C08K 7/10** (2006.01)

CPC (source: EP US)  
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Citation (search report)

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